IA BIO: Conclusion and Evaluation Template (CE)

**Conclusion:**

1. Restate initial hypothesis:
2. Determine whether the original hypothesis was supported or not supported by the investigation.

*Circle one*

Supported **or**  Not Supported

1. Provide a minimum of 3 direct interpretations of processed data from DCP to support whether your hypothesis was or was not supported.
   1. Support Evidence 1- interpretation of graph
   2. Support Evidence 2- relevant calculated value from data table/graph
   3. Support Evidence 3- relevant calculated value from data table/graph
2. State the quantitative or qualitative relationship between your independent and dependent variable. Ex) strong/weak positive linear correlation, strong/weak negative linear correlation, formula for line of best fit etc.
3. Comparison to a similar study found through research. \*\*\*cite sources\*\*\*
4. Elaboration based on science learned, make connection to course content and life applications.

**Evaluation**

1. Discuss the overall “quality/reliability” of results.
2. Identify any anomalous results, such as outliers.
3. Identify 3 sources of error and/or limitations to the experiment. \*\*Human error should not be included. See handout on errors and uncertainty for further assistance\*\*
   1. Error/limitation 1
   2. Error/limitation 2
   3. Error/limitation 3
4. Explain how each of the identified error stated above could have impacted the results.
   1. Error/limitation 1
   2. Error/limitation 2
   3. Error/limitation 3
5. Suggest realistic improvements for each identified error above, minimum of one improvement for each error.
   1. Improvement for error/limitation 1
   2. Improvement for error/limitation 2
   3. Improvement for error/limitation 3
6. Suggest a future study/investigation that could be done to enhance understanding of your research.